

Title (en)
IMPROVED WAVEGUIDE AND LIGHTING DEVICE

Title (de)
VERBESSERTER WELLENLEITER UND BELEUCHTVORRICHTUNG

Title (fr)
GUIDE D'ONDES ET DISPOSITIF D'ECLAIRAGE AMELIORES

Publication
EP 1932032 A1 20080618 (EN)

Application
EP 06796004 A 20060912

Priority

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Abstract (en)
[origin: WO2007034363A1] A waveguide (40; 51 ; 61), arranged to guide light from at least one light source (53a-c), the waveguide comprising at least one guiding edge (43; 50a-c; 60) adapted to contain the light in the waveguide (40; 51 ; 61), and an extraction edge (44; 50d) adapted to enable extraction of the light from the waveguide (40; 51 ; 61), wherein the guiding edge (43; 50a-c; 60) is configured to reflect the light on its way towards the extraction edge (44; 50d). The guiding edge (43; 50a-c; 60) is further configured such that a direction (xrl, Xr2) of reflection of a ray of light impinging on the guiding edge (43; 50a-c; 60), in a given direction (xi) of incidence relative to a general direction (X0) of extension of the guiding edge (43; 50a-c; 60), is dependent on a position (P1, P2) of incidence along the guiding edge (43; 50a-c; 60). The waveguide may be configured such that virtually no light is lost through back-scattering or unintentional extraction or outcoupling through the at least one guiding edge.

IPC 8 full level
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G02B 6/0036 (2013.01 - EP US)

Citation (search report)
See references of WO 2007034363A1

Citation (examination)

- US 2003048628 A1 20030313 - LEE KEUN-WOO [KR], et al
- US 2002135560 A1 20020926 - AKAOKA HIROKI [JP]

Designated contracting state (EPC)
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US 2008247722 A1 20081009

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